

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: March 3, 2003, 21:30:10 ; Search time 4788 Seconds
(without alignments)
10606.599 Million cell updates/sec

Title: US-10-017-621-3

Perfect score: 1745
Sequence: 1 tggagcagcgtaaaggatg.....gttcacctgccacttgctc 1745

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 841850

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl:

- 1: gb_ba.*
- 2: gb_hgt.*
- 3: gb_in.*
- 4: gb_om.*
- 5: gb_ov.*
- 6: gb_pat.*
- 7: gb_ph.*
- 8: gb_pl.*
- 9: gb_pr.*
- 10: gb_ro.*
- 11: gb_sts.*
- 12: gb_sy.*
- 13: gb_un.*
- 14: gb_vl.*
- 15: em_ba.*
- 16: em_fun.*
- 17: em_hum.*
- 18: em_in.*
- 19: em_mu.*
- 20: em_om.*
- 21: em_or.*
- 22: em_ov.*
- 23: em_pat.*
- 24: em_ph.*
- 25: em_pl.*
- 26: em_ro.*
- 27: em_sts.*
- 28: em_un.*
- 29: em_vi.*
- 30: em_htg_hum.*
- 31: em_htg_inv.*
- 32: em_htg_other.*
- 33: em_htg_mus.*
- 34: em_htg_pln.*
- 35: em_htg_rpd.*
- 36: em_htg_mam.*
- 37: em_htg_vrt.*
- 38: em_sy.*
- 39: em_htgo_hum.*
- 40: em_htgo_mus.*
- 41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	23.8	1.4	49	9	HSKCAK	X76171 H.sapiens m
2	22.8	1.3	50	6	A93721	A93721 Sequence 8
3	22.4	1.3	50	6	A93722	A93722 Sequence 9
4	22.2	1.3	47	6	I84671	I84671 Sequence 5
5	22	1.3	31	6	AX159452	AX159452 Sequence
6	21.6	1.2	31	6	AX248673	AX248673 Sequence
7	21.4	1.2	42	6	AX182243	AX182243 Sequence
8	21.4	1.2	42	6	AX382049	AX382049 Sequence
9	21.4	1.2	46	6	AR032544	AR032544 Sequence
10	21.4	1.2	46	6	AR209208	AR209208 Sequence
11	21.4	1.2	46	6	I29284	I29284 Sequence 15
12	21.4	1.2	46	6	I90958	I90958 Sequence 15
13	21	1.2	31	6	AX248015	AX248015 Sequence
14	21	1.2	46	6	AX186238	AX186238 Sequence
15	20.8	1.2	46	6	A98791	A98791 Sequence 24
16	20.6	1.2	21	6	AX153998	AX153998 Sequence
17	20.6	1.2	45	6	AR022074	AR022074 Sequence
18	20.6	1.2	45	6	I55009	I55009 Sequence 33
19	20.6	1.2	45	6	I92864	I92864 Sequence 38
20	20.4	1.2	48	6	AR079723	AR079723 Sequence
21	20.4	1.2	48	6	AR081253	AR081253 Sequence
22	20.4	1.2	48	6	AR170613	AR170613 Sequence
23	20.2	1.2	40	6	AR200128	AR200128 Sequence
24	20.2	1.2	40	6	I68030	I68030 Sequence 13
25	20.2	1.2	45	6	AX225269	AX225269 Sequence
26	20.2	1.2	49	6	AR083818	AR083818 Sequence
27	20.2	1.2	49	9	S82032	S82032 WTI-Wilms'
28	20.2	1.2	50	6	AX233404	AX233404 Sequence
29	20	1.1	36	6	A07324	A07324 Synthetic D
30	20	1.1	36	6	I12501	I12501 Sequence 18
31	20	1.1	41	6	BD007098	BD007098 Targeted
32	20	1.1	44	6	A07325	A07325 Synthetic D
33	20	1.1	44	6	I12502	I12502 Sequence 19
34	20	1.1	46	6	E52011	E52011 IL-6 recept
35	19.8	1.1	46	6	AX036348	AX036348 Sequence
36	19.8	1.1	46	6	AX036350	AX036350 Sequence
37	19.8	1.1	48	6	BD012118	BD012118 Vitamin D
38	19.8	1.1	48	23	BD004595	BD004595 Vitamin D
39	19.6	1.1	39	6	AX452342	AX452342 Sequence
40	19.6	1.1	42	6	AR153233	AR153233 Sequence
41	19.6	1.1	45	6	I17261	I17261 Sequence 27
42	19.6	1.1	45	6	I47720	I47720 Sequence 19
43	19.6	1.1	50	6	AR032970	AR032970 Sequence
44	19.6	1.1	50	6	AR209634	AR209634 Sequence
45	19.6	1.1	50	6	AX199648	AX199648 Sequence

ALIGNMENTS

RESULT 1
HSHCAK
LOCUS
H.sapiens mRNA for Cdk activating kinase.
DEFINITION
X76171
ACCESSION
X76171.1 GI:429096
VERSION
activating kinase; protein kinase.
KEYWORDS
Homo sapiens.
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 49)
AUTHORS
Hall, F.L.
TITLE
Direct Submission
JOURNAL
Submitted (08-NOV-1993) F.L. Hall, Childrens Hospital Los Angeles,
PRI 08-AUG-1995


```

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 50)
AUTHORS Shimkets,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and
methods of use thereof
JOURNAL Patent: WO 0140521-A 2780 07-JUN-2001;
Curagen Corporation (US)
FEATURES
source Location/Qualifiers
1..50
/organism="Homo sapiens"
/db_xref="taxon:9606"
misc_feature 25..26
/Note="Nucleotide deleted between bases 25 and 26"
Accession number cg42460243
misc_feature 26
/Note="2 of 2 allelic variants (2779 is other entry)"
BASE COUNT 7 a 22 c 13 g 8 t
ORIGIN

Query Match 1..3%; Score 22; DB 6; Length 50;
Best Local Similarity 73.7%; Pred. No. 2e+06;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1642 CGGCTGAGGATGCCACACCCCTCACAGGGCAGCCCC 1679
| | | | | | | | | | | | | | | | | | | | | |
Db 11 CTGCTTGAGCGCTGCCACACCCCTCTCGTGGGCCCCC 48

RESULT 6
AX248673
LOCUS AX248673 31 bp DNA linear PAT 28-SEP-2001
DEFINITION Sequence 752 from Patent WO0166800.
ACCESSION AX248673
VERSION AX248673.1 GI:15863296
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS 1 (bases 1 to 31)
Cargill,M., Ireland,J.S. and Lander,E.S.
TITLE Human single nucleotide polymorphisms
JOURNAL Patent: WO 0166800-A 752 13-SEP-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
FEATURES
source Location/Qualifiers
1..31
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 8 a 11 c 7 g 4 t 1 others
ORIGIN

Query Match 1.2%; Score 21.6; DB 6; Length 31;
Best Local Similarity 80.0%; Pred. No. 2.6e+06;
Matches 24; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 979 GACCTCAAGCCCCAGAACCTGCTCATCAAC 1008
| | | | | | | | | | | | | | | | | |
Db 2 GACATCAAGCCCCCAKAACTGCTGGTGGAC 31

RESULT 7
AX182243/c
LOCUS AX182243 42 bp DNA linear PAT 06-AUG-2001
DEFINITION Sequence 53 from Patent WO0142441.
ACCESSION AX182243
VERSION AX182243.1 GI:15133518
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
artificial sequences.
REFERENCE 1 (bases 1 to 42)
Reddy,S.I., Sadhu,L.I., Shukla,V.C. and Ferralolo,G.I.
Plastid transformation

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Patent: WO 0142441-A 53 14-JUN-2001;
International Centre for Genetic Engineering and Biotechnology (IT)
Location/Qualifiers
1..42
/organism="synthetic construct"
/db_xref="taxon:32630"
/Note="Primer"
BASE COUNT 15 a 10 c 11 g 6 t
ORIGIN

Query Match 1.2%; Score 21.4; DB 6; Length 42;
Best Local Similarity 80.6%; Pred. No. 2.8e+06;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 270 ACGTCTGCTCTCTGGGGAACCTTCGTTCTGCA 300
| | | | | | | | | | | | | | | | | |
Db 35 ACGTACGGGTCTCTGGCGACCTTCGATCTGCA 5

RESULT 8
AX382049/c
LOCUS AX382049 42 bp DNA linear PAT 18-MAR-2002
DEFINITION Sequence 53 from Patent WO0206497.
ACCESSION AX382049
VERSION AX382049.1 GI:19576871
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
artificial sequences.
REFERENCE 1
Reddy,V.S. and Sadhu,L.
TITLE Transplastomic plants
JOURNAL Patent: WO 0206497-A 53 24-JAN-2002;
International Centre for Genetic Engineering and Biotechnology (IT)
Location/Qualifiers
1..42
/organism="synthetic construct"
/db_xref="taxon:32630"
/Note="Primer"
BASE COUNT 15 a 10 c 11 g 6 t
ORIGIN

Query Match 1.2%; Score 21.4; DB 6; Length 42;
Best Local Similarity 80.6%; Pred. No. 2.8e+06;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 270 ACGTCTGCTCTCTGGGGAACCTTCGTTCTGCA 300
| | | | | | | | | | | | | | | | | |
Db 35 ACGTACGGGTCTCTGGCGACCTTCGATCTGCA 5

RESULT 9
AR032544
LOCUS AR032544 46 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 156 from patent US 5869241.
ACCESSION AR032544
VERSION AR032544.1 GI:5948149
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 46)
Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
TITLE Method of determining DNA sequence preference of a DNA-binding
molecule
JOURNAL Patent: US 5869241-A 156 09-FEB-1999;
Curagen Corporation (US)
FEATURES
source Location/Qualifiers
1..46
/organism="unknown"
BASE COUNT 9 a 14 c 16 g 7 t
ORIGIN

Query Match 1.2%; Score 21.4; DB 6; Length 46;

```

[illegible]

BASE COUNT 7 a 13 c 18 g 6 t 2 others
ORIGIN

/organism="Homo sapiens"
/db_xref="taxon:9606"

Query Match 1.2%; Score 21; DB 6; Length 46;
Best Local Similarity 71.1%; Pred. No. 3.5e+06;
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 550 AAGCCCTAGCGCGCGCTCCGTCGTCGTCAGCCTATC 587
||||| ||| || ||||| ||| || || |||||
Db 41 AAGCGTCTCGAGCGCCGCCCGGAGTGCTCCTATC 4

RESULT 15

A98791/c A98791 46 bp DNA linear PAT 26-JAN-2000
LOCUS
DEFINITION Sequence 24 from Patent WO9910358.

ACCESSION A98791
VERSION A98791.1 GI:6781812

KEYWORDS
SOURCE .
ORGANISM unidentified.
unclassified.

REFERENCE 1 (bases 1 to 46)

AUTHORS Hegemann,P.

TITLE METHOD FOR PRODUCING NUCLEIC ACID POLYMERS

JOURNAL Patent: WO 9910358-A 24 04-MAR-1999;

HEGEMANN PETER (DE)

FEATURES Location/Qualifiers

1..46

/organism="unidentified"

/db_xref="taxon:32644"

BASE COUNT 9 a 13 c 16 g 8 t
ORIGIN

Query Match 1.2%; Score 20.8; DB 6; Length 46;
Best Local Similarity 78.1%; Pred. No. 3.9e+06;
Matches 25; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 500 TGCCTGAGGGCTACCTGGAGAGCTGACCCCTC 531
||||| ||||| ||| || ||| ||| ||
Db 37 TGCCCGAGGGCTACGTGCAGAGCGCACCATC 6

Search completed: March 4, 2003, 00:06:28
Job time : 4794 secs

GenCore version 5.1.4.p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 3, 2003, 19:29:35 ; Search time 427 Seconds
(without alignments)
9203.131 Million cell updates/sec

Title: US-10-017-621-3
Perfect score: 1745
Sequence: 1 tggagcagcgtataaggatg.....gttcacctgccacttgctcc 1745

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 112599159 residues
Total number of hits satisfying chosen parameters: 2166140

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_l01002:*

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3: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1982.DAT:*

4: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1983.DAT:*

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6: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1985.DAT:*

7: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1986.DAT:*

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9: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1988.DAT:*

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22: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA2001A.DAT:*

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24: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
C 1	24.8	1.4	50	22 AAL34335	Human SNP oligonuc
2	22.4	1.3	33	24 ABA04099	Human Cdk5 related
C 3	22.4	1.3	33	24 ABA04100	Human Cdk5 related
4	22	1.3	31	22 AAI30264	Human single nucle
5	22	1.3	50	22 AAI75839	Human silent SNP c
6	21.4	1.2	31	22 AAI29606	Human single nucle
C 7	21.4	1.2	42	22 AAH22523	PCR primer SR53 fo
C 8	21.4	1.2	42	24 AAD29563	ifng coding region
9	21.4	1.2	46	15 AAQ69406	Human H1 histone g

10	21.4	1.2	45	18 AAT63868	Human H1 histone g
11	21.4	1.2	46	20 AAX17156	Test sequence from
12	21.4	1.2	46	24 ABR82647	DNA binding molecu
13	21	1.2	21	22 AAH62195	PCTAIRE-1 polymorp
C 14	21	1.2	46	22 AAL70659	Human cervical can
C 15	21	1.2	50	22 AAL34286	Human SNP oligonuc
C 16	20.8	1.2	46	20 AAX22932	DE19736591 primer
17	20.6	1.2	45	16 AAT07598	RT-PCR primer/prob
18	20.6	1.2	45	16 AAT00670	Primer 143 for hum
C 19	20.6	1.2	50	22 AAL27875	Human SNP oligonuc
C 20	20.4	1.2	32	24 AAT72077	Xcds1 degenerate p
C 21	20.4	1.2	48	14 AAQ50230	HIV pol INS mutage
C 22	20.2	1.2	36	19 AAV46356	PCR primer for ser
23	20.2	1.2	40	16 AAQ76190	Primer for amplify
24	20.2	1.2	40	18 AAT91033	Human 4-1BB 3' PCR
25	20.2	1.2	40	24 ABJ54053	Human cytokine rec
26	20.2	1.2	41	24 ABK48869	Human proton-adeno
27	20.2	1.2	41	24 ABK48870	Human proton-adeno
C 28	20.2	1.2	45	22 AAD17287	Human prostate spe
29	20.2	1.2	49	20 AAZ31379	MUSIGHAEI Mouse Ig
30	20.2	1.2	50	19 AAV59147	Reverse PCR primer
C 31	20.2	1.2	50	22 AAS43538	Corneodesmosin sin
32	20	1.1	41	19 AAV37843	CD4+ human T-lymph
C 33	20	1.1	41	24 AAL43819	Human large protei
34	20	1.1	46	21 AAZ91309	IL-6R and IL-6 fus
35	20	1.1	47	21 AAZ67885	Human map-related
36	20	1.1	50	22 AAL29783	Human SNP oligonuc
37	20	1.1	50	22 AAL34645	Human SNP oligonuc
38	19.8	1.1	46	21 AAC82589	Hammerhead ribozym
39	19.8	1.1	48	18 AAT76056	Human A2b adenosin
40	19.8	1.1	48	20 AAX53859	Human adenosine A2
41	19.8	1.1	48	21 AAF19434	Human adenosine A2
42	19.8	1.1	48	21 AAX33302	Low adenosine anti
43	19.8	1.1	48	21 AAA03704	Human adenosine A1
C 44	19.8	1.1	48	22 AAH74232	Nucleotide sequenc
45	19.6	1.1	31	22 AAI30029	Human single nucle

ALIGNMENTS

RESULT 1	
AAL34335/c	
ID AAL34335 standard; DNA; 50 BP.	
XX AAL34335;	
AC AAL34335;	
XX 24-JAN-2002 (first entry)	
XX Human SNP oligonucleotide #7543.	
XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;	
XX neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;	
XX amyloid protein; angiopoietin; apoptosis related protein; cadherin;	
XX cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;	
XX complement related protein; cytochrome; kinesis; cytokine; interferon;	
XX interleukin; G-protein coupled receptor; thioesterase; inflammation;	
XX multifactorial disease; autoimmune disease; infection;	
XX nervous system disease; ss.	
XX Homo sapiens.	
OS	
XX	
PN WO200147944-A2.	
XX	
PD 05-JUL-2001.	
XX	
PF 28-DEC-2000; 2000WO-US35498.	
XX	
PR 28-DEC-1999; 99US-0173419.	
PR 27-DEC-2000; 2000US-0173419.	
XX	
PA (CURA-) CURAGEN CORP.	

PI Shimkets RA, Leach M;
 DR WPI; 2001-465210/50.
 XX
 PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
 PT oncogenes and histones, useful for diagnosing and treating, e.g.
 PT cancer, autoimmune diseases and infections -
 XX
 XX Claim 1; Page 3563; 4143pp; English.
 XX
 CC The present invention relates to oligonucleotides encoding polymorphic
 CC variants of proteins related to amylases, amyloid proteins, angiotensin,
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
 CC histones, kinases, colony stimulating factors, complement related
 CC proteins, cytochromes, kinases, cytokines, interferons, interleukins,
 CC G-protein coupled receptors and thioesterases. The present sequence is
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded
 CC by them may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the proteins listed
 CC above. Disorders that may be prevented, diagnosed and/or treated include
 CC multifactorial diseases with a genetic component, such as autoimmune
 CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
 CC leukaemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.
 XX
 SQ Sequence 50 BP; 7 A; 13 C; 14 G; 16 T; 0 other;

Query Match 1.4%; Score 24.8; DB 22; Length 50;
 Best Local Similarity 72.7%; Pred. No. 7.8e+03;
 Matches 32; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1619 CAGACCGAGCGCCGACGAGCGGCTGGAGGATGCCACACC 1662
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 45 CAGACCGAGCGCCGACGAGCTCACTGCTGGAGAAATATGACACC 2

RESULT 2
 ABA04099
 ID ABA04099 standard; DNA; 33 BP.
 XX
 AC ABA04099;
 XX
 DT 21-FEB-2002 (first entry)
 XX
 DE Human Cdk5 related PCR primer SEQ ID NO:18.
 XX
 KW Human; beta-amyloid; cyclin-dependent kinase inhibitor; nerve cell;
 KW amyloid precursor protein; APP; Cdk5; PCR primer; ss.

OS Homo sapiens.
 OS
 PN WO200182967-A1.
 XX
 PD 08-NOV-2001.

XX 25-APR-2001; 2001WO-JP03555.

XX 28-APR-2000; 2000JP-0131037.

XX (YAMA) YAMANOUCHI PHARM CO LTD.
 PA (SUZU/) SUZUKI T.

XX Suzuki T, Watanabe T, Kawabata S, Hachiya S;

XX WPI; 2002-026209/03.

XX Medicinal compositions for the treatment of dementia and Alzheimer's
 PT disease, comprise compounds that suppress beta amyloid production -
 XX
 PS Example 6; Page 23; 62pp; Japanese.

CC The present invention describes medicinal compositions (I) inhibiting
 CC beta-amyloid production comprising an active component a substance that
 CC inhibits the activity of cyclin-dependent kinase (CDK). Also described
 CC are: (1) a method for screening compounds for their ability to inhibit
 CC the production of beta-amyloid by contacting with beta-amyloid producing
 CC cells; and (2) screening kits. (I) have nootropic and neuroprotective
 CC activities. (I) suppress the phosphorylation of amyloid precursor protein
 CC (APP) which is an essential step in the production of beta-amyloid. (I)
 CC can be used in the treatment and prevention of neurodegenerative diseases
 CC such as dementia and Alzheimer's disease. The present sequence represents
 CC a PCR primer which is used in the exemplification of the present
 CC invention.

XX
 SQ Sequence 33 BP; 6 A; 6 C; 11 G; 10 T; 0 other;

Query Match 1.3%; Score 22.4; DB 24; Length 33;
 Best Local Similarity 81.2%; Pred. No. 2.8e+04;
 Matches 26; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1018 GAGCTCAAGCTGGCTGACTTTGGCTGGCCCG 1049
 ||||| || ||||| ||||| ||||| ||||| |||||
 Db 2 GAGCTGAATGGCTAATTTGGCTGGCTCG 33

RESULT 3
 ABA04100/c
 ID ABA04100 standard; DNA; 33 BP.

XX ABA04100;

XX
 DT 21-FEB-2002 (first entry)

XX Human Cdk5 related PCR primer SEQ ID NO:19.

DE Human; beta-amyloid; cyclin-dependent kinase inhibitor; nerve cell;
 KW amyloid precursor protein; APP; Cdk5; PCR primer; ss.

OS Homo sapiens.

OS
 PN WO200182967-A1.

XX
 PD 08-NOV-2001.

XX 25-APR-2001; 2001WO-JP03555.

XX 28-APR-2000; 2000JP-0131037.

XX (YAMA) YAMANOUCHI PHARM CO LTD.
 PA (SUZU/) SUZUKI T.

XX Suzuki T, Watanabe T, Kawabata S, Hachiya S;

XX WPI; 2002-026209/03.

XX Medicinal compositions for the treatment of dementia and Alzheimer's
 PT disease, comprise compounds that suppress beta amyloid production -
 XX
 PS Example 6; Page 23; 62pp; Japanese.

CC The present invention describes medicinal compositions (I) inhibiting
 CC beta-amyloid production comprising an active component a substance that
 CC inhibits the activity of cyclin-dependent kinase (CDK). Also described
 CC are: (1) a method for screening compounds for their ability to inhibit
 CC the production of beta-amyloid by contacting with beta-amyloid producing
 CC cells; and (2) screening kits. (I) have nootropic and neuroprotective
 CC activities. (I) suppress the phosphorylation of amyloid precursor protein
 CC (APP) which is an essential step in the production of beta-amyloid. (I)
 CC can be used in the treatment and prevention of neurodegenerative diseases
 CC such as dementia and Alzheimer's disease. The present sequence represents
 CC a PCR primer which is used in the exemplification of the present
 CC invention.

XX
 SQ Sequence 33 BP; 10 A; 11 C; 6 G; 6 T; 0 other;


```
Query Match 1.3%; Score 22.4; DB 24; Length 33;
Best Local Similarity 81.2%; Pred. No. 2.8e+04;
Matches 26; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1018 GAGCTCAAGCTGGCTGACTTTGGCTGGCCCG 1049
      ||||| || ||||| ||||| ||||| ||||| ||
Db 32 GAGCTGAATGGCTAATTGGCTGGCTCG 1

RESULT 4
AAI30264
ID AAI30264 standard; DNA; 31 BP.
XX
AC AAI30264;
XX
DT 18-OCT-2001 (first entry)
XX
DE Human single nucleotide polymorphism (SNP) 97.
XX
KW Human; resequencing; genotype; disease; forensic; paternity testing;
KW single nucleotide polymorphism; SNP; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Variation replace(16,T)
FT /*tag= a
FT /*standard_name= "single nucleotide polymorphism"
XX
PN WO200166800-A2.
XX
PD 13-SEP-2001.
XX
PF 07-MAR-2001; 2001WO-US07268.
XX
PR 07-MAR-2000; 2000US-0187510.
XX
PR 22-MAY-2000; 2000US-0206129.
XX
PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
PI Cargill M, Ireland JS, Lander ES;
XX
DR WPI; 2001-522952/57.
XX
PT Nucleic acid molecules from the human genome which include polymorphic
PT sites, useful in methods for predicting the presence, absence or
PT severity of a particular phenotype or disorder (e.g. diabetes)
PT associated with a particular genotype -
XX
PS Claim 1; Page 75; 145pp; English.
XX
CC The invention relates to the identification of nucleic acid molecules
CC (AAI29513-AAI31314) from the human genome which include polymorphic sites
CC which can predispose individuals to disease. Various genes from a number
CC of individuals were resequenced and single nucleotide polymorphisms
CC (SNPs) in these genes discovered. The method is useful for predicting the
CC presence, absence or severity of a particular phenotype or disorder (e.g.
CC diabetes) associated with a particular genotype. The nucleic acids
CC containing the polymorphic sites may be useful in forensics and paternity
CC testing.
XX
SQ Sequence 31 BP; 8 A; 11 C; 8 G; 4 T; 0 other;

Query Match 1.3%; Score 22; DB 22; Length 31;
Best Local Similarity 83.3%; Pred. No. 3.4e+04;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 979 GACCTCAAGCCCCAGACACTGCTCATCAAC 1008
      ||| ||||| ||||| ||||| ||||| ||
Db 2 GACATCAAGCCCCAGACACTGCTGTGGAC 31
```

```
RESULT 5
AAI75839
ID AAI75839 standard; DNA; 50 BP.
XX
AC AAI75839;
XX
DT 09-NOV-2001 (first entry)
XX
DE Human silent SNP containing nucleic acid SEQ:2780.
XX
KW Human; single nucleotide polymorphism; SNP; genome; gene therapy;
KW protein therapy; vaccine; probe; diagnostic assay; detection;
KW quantitation; restorative therapy; polymorphic; ds.
XX
OS Homo sapiens.
XX
PN WO200140521-A2.
XX
PD 07-JUN-2001.
XX
PF 30-NOV-2000; 2000WO-US32758.
XX
PR 30-NOV-1999; 99US-0168138.
PR 29-NOV-2000; 2000US-0726173.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Leach M;
XX
DR WPI; 2001-356160/37.
XX
PT Polymorphic nucleic acid sequences, useful in genetic testing and
PT therapy -
XX
PS Claim 1; Page 901; 2653pp; English.
XX
CC AAI73060 to AAI79867 represent isolated human polymorphic polynucleotide
CC sequences (I), which contain single nucleotide polymorphisms (SNPs).
CC AAM53114 to AAM53329 represent peptides related to human polymorphic
CC polynucleotide sequences. The sequences can be used in gene and protein
CC therapy, and in vaccine production. (I) and the polypeptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of polymorphic polypeptides.
CC For example, (I) may be used to treat disorders by rectifying mutations
CC or deletions in a patient's genome that affect the activity of
CC polypeptides by expressing inactive proteins or to supplement the
CC patients own production of polypeptide. Additionally, (I) and its
CC complementary sequences may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acids
CC in samples, and therefore which patients may be in need of restorative
CC therapy. The polypeptides encoded by (I) may be used as antigens in the
CC production of antibodies specific for polymorphic polypeptides. The
CC antibodies may also be used to down regulate expression and activity.
CC The antibodies may also be used as diagnostic agents for detecting the
CC presence of polymorphic polypeptides in samples.
XX
SQ Sequence 50 BP; 7 A; 22 C; 13 G; 8 T; 0 other;

Query Match 1.3%; Score 22; DB 22; Length 50;
Best Local Similarity 73.7%; Pred. No. 4.2e+04;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1642 CGGCTGGAGGATGCCACACCCCTCACAGGCGACCC 1679
      | ||| ||| | ||||| ||||| || |||||
Db 11 CTGCTTGAGCGCTGCCACACCCCTCTCTGCTGGGCCCC 48

RESULT 6
AAI29606
ID AAI29606 standard; DNA; 31 BP.
XX
AC AAI29606;
XX
```

```

DT 18-OCT-2001 (first entry)
XX
XX Human single nucleotide polymorphism (SNP) PCTAIRE3 1.
XX
XX Human; resequence; genotype; disease; forensic; paternity testing;
KW single nucleotide polymorphism; SNP; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH Variation replace(16,C)
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
XX
XX WO200166800-A2.
XX
XX 13-SEP-2001.
XX
XX 07-MAR-2001; 2001WO-US07268.
XX
XX 07-MAR-2000; 2000US-0187510.
XX 22-MAY-2000; 2000US-0206129.
XX
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
XX Cargill M, Ireland JS, Lander ES;
XX
XX WPI; 2001-522952/57.
XX
XX Nucleic acid molecules from the human genome which include polymorphic
XX sites, useful in methods for predicting the presence, absence or
XX severity of a particular phenotype or disorder (e.g. diabetes)
XX associated with a particular genotype -
XX
XX Claim 1; Page 34; 145pp; English.
XX
XX The invention relates to the identification of nucleic acid molecules
XX (AAI29513-AAI31314) from the human genome which include polymorphic sites
XX which can predispose individuals to disease. Various genes from a number
XX of individuals were resequenced and single nucleotide polymorphisms
XX (SNPs) in these genes discovered. The method is useful for predicting the
XX presence, absence or severity of a particular phenotype or disorder (e.g.
XX diabetes) associated with a particular genotype. The nucleic acids
XX containing the polymorphic sites may be useful in forensics and paternity
XX testing.
XX
XX Sequence 31 BP; 6 A; 9 C; 8 G; 8 T; 0 other;
XX
XX Query Match 1.2%; Score 21.4; DB 22; Length 31;
XX Best Local Similarity 80.6%; Pred. No. 4.9e+04;
XX Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
XX
XX QY 577 GTCACCTATCTGAGATTGGCGTTGGGAAC 607
XX | | | | | | | | | | | | | | | | | | | |
XX 1 GCCTCCCTGTCAGACATTGGCTTTGGGAAC 31
XX
XX RESULT 7
XX AAH22523/C
XX ID AAH22523 standard; DNA; 42 BP.
XX
XX AAH22523;
XX
XX 22-AUG-2001 (first entry)
XX
XX PCR primer SR53 for amplifying a ifnG coding region.
XX
XX Transplastome; plastome; plastid; chloroplast; transgene; plant;
KW ifnG; PCR primer; ss.
XX
XX Synthetic.
XX
XX WO200142441-A2.
XX

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XX 14-JUN-2001.
XX
XX 08-DEC-2000; 2000WO-EP12446.
XX
XX 08-DEC-1999; 99GB-0029075.
XX 14-JUL-2000; 2000GB-0017369.
XX
XX (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY.
XX
XX Reddy S, Sadhu L, Shukla V, Ferraiolo G;
XX
XX WPI; 2001-381671/40.
XX
XX Obtaining a stable transplastome for producing a transplastomic cell,
XX plant or seed, comprises transforming a recipient plastome with a
XX polynucleotide comprising a 5' and 3' sequence homologous to the
XX recipient -
XX
XX Example 12; Page 127; 128pp; English.
XX
XX The invention relates to a method of obtaining a stable transplastome,
XX by transforming a recipient plastome (RP) with a polynucleotide having a
XX 5' sequence homologous to a region of RP, and joined to it, a sequence
XX heterologous to RP comprising a coding region operably linked to
XX regulatory region capable of securing expression of coding region in the
XX plastid and joined to it, and a 3' sequence homologous to a region of RP.
XX The method is useful for obtaining a transplastomic plastid, by
XX transforming a plastome within a plastid such as proplastid, amyloplast,
XX chromoplast, etioplast or leucoplast, preferably chloroplast. The method
XX is useful for obtaining a transplastomically expressed protein. The
XX method provides high, uniform, reliable expression of transgenes in
XX plants, with stable inheritance of the trait by avoiding the potential
XX for the dangerous spread of transgenes to the ecosystem. The present
XX sequence represents a PCR primer for amplifying a ifnG coding region,
XX used in generating expression vectors for ifnG in chloroplasts.
XX
XX Sequence 42 BP; 15 A; 10 C; 11 G; 6 T; 0 other;
XX
XX Query Match 1.2%; Score 21.4; DB 22; Length 42;
XX Best Local Similarity 80.6%; Pred. No. 5.6e+04;
XX Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
XX
XX QY 270 ACGTGCTGCTCCGCGGAACCTTCGTTCTGCA 300
XX | | | | | | | | | | | | | | | | | | | |
XX 35 ACGTACGGGTCTCTGGCGACCTTCGATCTGCA 5
XX
XX RESULT 8
XX AAD29563/c
XX ID AAD29563 standard; DNA; 42 BP.
XX
XX AAD29563;
XX
XX 07-MAY-2002 (first entry)
XX
XX ifnG coding region DNA amplifying PCR primer, SR53.
XX
XX Transgenic plant; transplastomic plant; medicament; PCR primer; ss.
XX
XX Unidentified.
XX
XX WO200206497-A2.
XX
XX 24-JAN-2002.
XX
XX 13-JUL-2001; 2001WO-EP08132.
XX
XX 14-JUL-2000; 2000GB-0017397.
XX
XX (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY.
XX
XX Reddy VS, Sadhu L;
XX

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PS Claim 6; Column 177-178; 264pp; English.
XX
CC The sequences given in AAT63713-4312 represent duplex DNA's which act
CC as target regions in the method of the invention. The method for
CC altering the binding characteristics of a DNA-binding protein to duplex
CC DNA comprises contacting the duplex DNA with a small molecule which
CC binds sequence-specifically to a target region, where, when the small
CC molecule is bound to the target region, it is adjacent to, but not
CC overlapping by more than 4 bp, a binding site for a DNA-binding protein.
CC The small molecule is added at a concentration effective to alter the
CC binding of the DNA binding protein, pref. TFIIID, to its binding site on
CC the duplex DNA. The binding of the small molecule may inhibit or
CC enhance the binding of the DNA-binding protein to its binding site. The
CC compounds isolated using this method are potentially useful as
CC therapeutic agents for treatment of any disease which involves a
CC specific DNA sequence, e.g. cancer, or inherited genetic disorders etc.
CC The method is suitable for screening large biological or chemical
CC libraries and allows determination of sequence-specific and relative
CC affinities of known DNA-binding agents for different DNA sequences.
CC The design of these duplex DNA's allows a single DNA:protein interaction
CC to be used for screening sequence-specific, or preferential, DNA binding
CC proteins that recognise almost any possible sequence (see also AAT49539-
CC 74).
XX
SQ Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;

Query Match 1.2%; Score 21.4; DB 18; Length 46;
Best Local Similarity 71.8%; Pred. No. 5.8e+04;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1641 GCGGCTGGAGGATGCCACACCCCTCAGAGGGCAGCGCC 1679
||||| | ||| || |||| ||||| ||||| ||
DB 2 GCGGTGGATTGGAGCTCCACCAATCAGGCGCAGCGCC 40

RESULT 11
AAX17156
ID AAX17156 standard; DNA; 46 BP.
XX
XX AAX17156;
AC
XX
XX 06-MAY-1999 (first entry)
DT
DE
DE Test sequence from human H1 histone gene FNC16.
XX
XX Test sequence; DNA-binding molecule; screening sequence; human;
KW
KW nucleic acid amplification; target; viral; ds.
XX
XX Homo sapiens.
OS
XX
XX US5869241-A.
PN
XX
XX 09-FEB-1999.
PD
XX
XX 07-JUN-1995; 95US-0475228.
PF
XX
XX 20-DEC-1993; 93US-0171389.
PR
XX 27-JUN-1991; 91US-0723618.
PR 23-DEC-1992; 92US-0996783.
PR 17-SEP-1993; 93US-0123936.
PR 07-JUN-1995; 95US-0475228.
XX
XX (GENE-) GENELABS TECHNOLOGIES INC.
PA
XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;
XX
XX WPI; 1999-152755/13.
DR
XX
XX Determination of DNA sequence preference of a DNA-binding molecule -
PT based on inhibition of binding of protein to oligonucleotide
PT sequence attached to test sequence
XX
XX Claim 3; Columns 179-180; 270pp; English.
PS

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XX Sequences AAX17001 to AAX17600 represent specifically claimed target
CC test sequences that are used in the method of the invention of
CC determining the DNA sequence preference of a DNA-binding molecule. The
CC method comprises: (i) adding a test molecule and a DNA-binding protein to
CC a mixture of duplex DNA test oligonucleotides, each of the test
CC oligonucleotides having a test sequence adjacent to a screening sequence,
CC where the screening sequence binds to the DNA-binding protein with a
CC binding affinity that is independent of the DNA sequence of the test
CC sequence, and where the mixture of duplex DNA test oligonucleotides
CC includes several test sequences; (ii) incubating the test molecule, the
CC mixture of duplex DNA test oligonucleotides and the DNA-binding protein
CC for a time sufficient to permit binding of the test molecule to test
CC sequences in the duplex DNA; (iii) separating unbound test
CC oligonucleotides from test oligonucleotides bound to binding protein;
CC (iv) amplifying the unbound test oligonucleotides; (v) repeating steps
CC (ii) to (iv); (vi) isolating the amplified test oligonucleotides; and
CC (vii) sequencing the isolated test oligonucleotides. Test sequences
CC AAX17001-X17481 and AAX17600 correspond to promoter targets for human
CC genes and test sequences AAX17482-X17599 correspond to promoter targets
CC for viral genes.
XX
SQ Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;

Query Match 1.2%; Score 21.4; DB 20; Length 46;
Best Local Similarity 71.8%; Pred. No. 5.8e+04;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1641 GCGGCTGGAGGATGCCACACCCCTCAGAGGGCAGCGCC 1679
||||| | ||| || |||| ||||| ||||| ||
DB 2 GCGGTGGATTGGAGCTCCACCAATCAGGCGCAGCGCC 40

RESULT 12
ABK82647
ID ABK82647 standard; DNA; 46 BP.
XX
XX ABK82647;
AC
XX
XX 27-AUG-2002 (first entry)
DT
DE
DE DNA binding molecule screening method test sequence #156.
XX
XX DNA binding molecule screening; inhibition of transcription;
KW infection; human immunodeficiency virus; HIV; parasite; cancer;
KW cardiovascular; respiratory; gastrointestinal; endocrine; metabolic;
KW rheumatic; immunological; haematological; neurological;
KW psychiatric; dermatological; ophthalmological; musculo-skeletal;
KW urogenital disorder; ss.
XX
XX Synthetic.
OS
XX
XX US6384208-B1.
PN
XX
XX 07-MAY-2002.
PD
XX
XX 15-JUL-1999; 99US-0354947.
PF
XX
XX 20-DEC-1993; 93US-0171389.
PR
XX 07-JUN-1995; 95US-0482080.
PR 27-JUN-1991; 91US-0723618.
PR 23-DEC-1992; 92US-0996783.
PR 17-SEP-1993; 93US-0123936.
PR 07-JUN-1995; 95US-0475228.
XX
XX (GENE-) GENELABS TECHNOLOGIES INC.
PA
XX Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;
XX
XX WPI; 2002-442819/47.
DR
XX
XX Decreasing transcriptional activity of genes for treating infections or
PT cancer, by administration of an agent that binds to two non-overlapping
PT regions of the gene -
XX

```

```

XX PS Example 15; SEQ ID No 156; 98pp; English.
XX CC
XX CC The invention relates to a method of decreasing transcriptional activity
XX CC in a duplex deoxyribonucleic acid (DNA) template (T1) comprising
XX CC contacting (T1) with a binding agent comprising at least one small duplex
XX CC DNA-binding molecule (T2) coupled to at least one other small duplex-
XX CC binding molecule that binds to a non-overlapping region of target
XX CC sequence (TS). The method is useful for inhibiting transcription of a
XX CC range of disease-related genes for treating infections (by viruses,
XX CC including human immunodeficiency virus, bacteria, fungi, protozoa
XX CC and parasites), cancer, cardiovascular, respiratory, gastrointestinal,
XX CC endocrine/metabolic, rheumatic/immunological, haematological,
XX CC neurological, psychiatric, dermatological, ophthalmological,
XX CC musculo-skeletal, genetic or urogenital disorders. The method provides
XX CC sequence-specific inhibition of transcription of pathological genes
XX CC without affecting transcription of cellular genes regulated by the same
XX CC transcription factor, and can be applied to regulation of any gene.
XX CC ABK82492-ABK83155 represent DNA binding molecule test sequences used in
XX CC the method of the invention.
XX SQ Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;

Query Match 1.2%; Score 21.4; DB 24; Length 46;
Best Local Similarity 71.8%; Pred. No. 5.8e+04;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1641 GCGGCTGGAGGATGCCACACCCCTCAGCGGCGAGCC 1679
Db 2 CCGGTGGATTGGCGCTCCACCAATCAGCGGCGAGCC 40

RESULT 13
AAH62195
ID AAH62195 standard; DNA; 21 BP.
XX AC AAH62195;
XX DT 12-SEP-2001 (first entry)
XX DE PCTAIRE-1 polymorphism containing DNA fragment #96.
XX KW Single nucleotide polymorphism; SNP; human; cancer; inflammation;
XX OS heart disease; paternity testing; forensic science; ds.
XX FH Homo sapiens.
XX FT Key Location/Qualifiers
XX FT Variation replace(11,G)
XX FT /*tag= a
XX FT /standard_name= "single nucleotide polymorphism"
XX PN WO200138576-A2.
XX PD 31-MAY-2001.
XX PF 17-NOV-2000; 2000WO-US31639.
XX PR 24-NOV-1999; 99US-0167334.
XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX PI Cargill M, Ireland JS, Lander ES;
XX DR WPI; 2001-367705/38.
XX PT New nucleic acid segments of the human genome, particularly from genes
XX PT including polymorphic sites, for phenotype correlation, forensics,
XX PT paternity testing, medicine and genetic analysis -
XX PS Claim 1; Page 37; 80pp; English.
XX SQ DNA sequences AAH62100 - AAH62688 represent segments of human genes which

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CC contain single nucleotide polymorphisms (SNPs). A method is included in
CC the invention for analysing a nucleic acid sample, which consists of
CC determining the base occupying any one of the polymorphic sites given in
CC the SNP containing sequences. The nucleotide sequences can be used in the
CC diagnosis or monitoring of diseases, such as cancer, inflammation, heart
CC diseases, diseases of the cardiovascular system, and infection by
CC microorganisms. The oligonucleotides are also useful in the manufacture
CC of a medicament for the treatment or prophylaxis of the diseases, and as
CC applications such as phenotype correlation, forensics, paternity testing,
CC medicine and genetic analysis.
XX SQ Sequence 21 BP; 9 A; 4 C; 6 G; 2 T; 0 other;

Query Match 1.2%; Score 21; DB 22; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.4e+04;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 702 CAAGGAGATCAGACTGGAACA 722
Db 1 CAAGGAGATCAGACTGGAACA 21

RESULT 14
AAH70659/C
ID AAH70659 standard; cDNA; 46 BP.
XX AC AAH70659;
XX DT 19-SEP-2001 (first entry)
XX DE Human cervical cancer marker nucleic acid 1933.
XX KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX OS Homo sapiens.
XX PN WO200142467-A2.
XX PD 14-JUN-2001.
XX PF 08-DEC-2000; 2000WO-US33312.
XX PR 08-DEC-1999; 99US-0169681.
XX PR 21-DEC-1999; 99US-0171350.
XX PR 14-MAR-2000; 2000US-0189315.
XX PR 12-MAY-2000; 2000US-0203791.
XX PR 09-JUN-2000; 2000US-0210600.
XX PR 21-JUL-2000; 2000US-0220114.
XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX PI Schlegel R, Deeds J, Berger A, Zhao X;
XX DR WPI; 2001-375006/39.
XX PT New isolated nucleic acid for diagnosing and treating cervical cancer
XX PT and for assessing and detecting compounds for treating the cancer -
XX PS Claim 1; Page 415; 1051pp; English.
XX CC The invention relates to novel genes (AAH68727-AAH73383) associated with
XX CC cervical cancer with cytostatic activity. The nucleic acids and encoded
XX CC polypeptides are useful: to assess if a patient is afflicted with
XX CC cervical cancer or has a pre-malignant condition; to monitor the
XX CC progression of cervical cancer or a premalignant condition in a patient;
XX CC and to select and/or assess the efficacy of a compound or therapy for
XX CC inhibiting cervical cancer in a patient. The nucleic acids may also be
XX CC useful for gene therapy.
XX SQ Sequence 46 BP; 7 A; 13 C; 18 G; 6 T; 2 other;

Query Match 1.2%; Score 21; DB 22; Length 46;

```


F

ZIP: 10134
COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/050,478
; FILING DATE: 26-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/02908
; FILING DATE: 29-MAR-1993
; CLASSIFICATION: 435
; APPLICATION DATA:
; APPLICATION NUMBER: US 07/858,747
; FILING DATE: 27-MAR-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MORRY, MARY J.
; REGISTRATION NUMBER: 34,398
; REFERENCE/DOCKET NUMBER: 2026-4006US1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)751-6849
; TELEFAX: (212)751-6849
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 48 BASE PAIRS
; TYPE: NUCLEIC ACID
; STRANDEDNESS: SINGLE
; TOPOLOGY: LINEAR
; US-08-050-478-47

Query Match 1.2%; Score 20.4; DB 2; Length 48;
Best Local Similarity 71.1%; Pred. No. 1.7e+04;
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 325 GAGATTGTCACGAGACTTGAAGTGGGGTCTGTATGG 362
||||| ||||| ||| ||||| ||||| ||||| |||||
Db 7 GAGACGGTCCCGTGAAGTTGAAGCGCGGGATGGATGG 44

RESULT 15
US-09-414-117-47
; Sequence 47, Application US/09414117
; Patent No. 6291664
; GENERAL INFORMATION:
; APPLICANT:
; APPLICANT:
; APPLICANT:
; TITLE OF INVENTION: METHOD OF ELIMINATING
; TITLE OF INVENTION: INHIBITORY/INSTABILITY REGIONS OF mRNA
; NUMBER OF SEQUENCES: 130
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/414,117
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,049
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/02908

; FILING DATE: 29-MAR-1993
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/858,747
; FILING DATE: 27-MAR-1992
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: MORRY, MARY J.
; REGISTRATION NUMBER: 34,398
; REFERENCE/DOCKET NUMBER: 2026-4006US1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)751-6800
; TELEFAX: (212)751-6849
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 48 BASE PAIRS
; TYPE: NUCLEIC ACID
; STRANDEDNESS: SINGLE
; TOPOLOGY: LINEAR
; US-09-414-117-47

Query Match 1.2%; Score 20.4; DB 4; Length 48;
Best Local Similarity 71.1%; Pred. No. 1.7e+04;
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 325 GAGATTGTCACGAGACTTGAAGTGGGGTCTGTATGG 362
||||| ||||| ||| ||||| ||||| ||||| |||||
Db 7 GAGACGGTCCCGTGAAGTTGAAGCGCGGGATGGATGG 44

Search completed: March 4, 2003, 00:52:00
Job time : 80 secs

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: March 3, 2003, 22:39:05 ; Search time 133 seconds
(without alignments)
8162.066 Million cell updates/sec

Title: US-10-017-621-3

Perfect score: 1745

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Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 460893 seqs, 311809382 residues

Total number of hits satisfying chosen parameters: 254638

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA.:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	21.8	1.2	48	9	US-10-054-444-6	Sequence 6, Appli
2	21.6	1.2	31	10	US-09-801-274-752	Sequence 752, App
3	21.4	1.2	45	9	US-10-029-413A-25	Sequence 25, Appl
4	21	1.2	31	10	US-09-801-274-94	Sequence 94, Appl
5	20.4	1.2	48	9	US-09-943-722-47	Sequence 47, Appl
6	20	1.1	45	10	US-09-147-142-11	Sequence 11, Appl
7	20	1.1	40	10	US-09-147-142-12	Sequence 12, Appl
8	19.8	1.1	40	10	US-09-263-959-758	Sequence 758, App
9	19.6	1.1	42	10	US-09-790-417-235	Sequence 235, App
10	19.4	1.1	45	12	US-10-073-256-27	Sequence 27, Appl
11	19.4	1.1	45	12	US-10-073-256-35	Sequence 35, Appl
12	19.2	1.1	31	10	US-09-801-274-517	Sequence 517, App
13	19.2	1.1	46	10	US-09-263-959-121	Sequence 121, App
14	19	1.1	43	9	US-09-376-940-23	Sequence 23, Appl
15	19	1.1	45	10	US-09-818-066-32	Sequence 32, Appl
16	19	1.1	47	9	US-10-118-231-9	Sequence 9, Appli
17	18.8	1.1	48	9	US-09-840-277-104	Sequence 104, App
18	18.8	1.1	48	9	US-09-840-277-105	Sequence 105, App
19	18.8	1.1	48	10	US-09-753-436-67	Sequence 67, Appl

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21 18.6 1.1 25 10 US-09-866-108-15295
22 18.6 1.1 48 9 US-09-864-785-3433
23 18.4 1.1 41 9 US-09-938-842A-5256
24 18.4 1.1 48 10 US-09-761-534A-18
25 18.2 1.0 36 9 US-10-219-248-31
26 18.2 1.0 36 9 US-10-219-247-31
27 18.2 1.0 36 10 US-09-855-722-31
28 18.2 1.0 50 9 US-09-943-722-9
29 18 1.0 42 10 US-09-790-417-233
30 18 1.0 43 12 US-10-043-142-4
31 18 1.0 46 9 US-10-026-914-8
32 18 1.0 46 9 US-10-026-914-10
33 18 1.0 46 9 US-10-026-914-14
34 18 1.0 46 9 US-10-026-914-16
35 18 1.0 48 9 US-09-864-785-3226
36 17.8 1.0 35 9 US-10-051-989-2
37 17.8 1.0 35 9 US-09-861-097-2
38 17.8 1.0 42 10 US-09-865-807-25
39 17.8 1.0 45 12 US-10-073-256-24
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44 17.8 1.0 48 9 US-09-864-785-3311
45 17.8 1.0 48 9 US-09-864-785-3491
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ALIGNMENTS

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US-10-054-444-6
; Sequence 6, Application US/10054444
; Patent No. US2002016342A1
; GENERAL INFORMATION:
; APPLICANT: Guyre, Paul M.
; APPLICANT: Goldstein, Joel
; APPLICANT: Wu, Zining
; APPLICANT: Sun, Wanwen
; TITLE OF INVENTION: Recombinant Cat Allergen, Fel d1, Expressed in
; TITLE OF INVENTION: Baculovirus for Diagnosis and Treatment of Cat Allergy
; FILE REFERENCE: DC-0118
; CURRENT APPLICATION NUMBER: US/10/054,444
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/410,963
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-10-05
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-054-444-6

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Best Local Similarity 70.7%; Pred. No. 9.5e+03;
Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

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Db 2 AGAACCTCTCCACCAGAACCTCTCTCCACCAGAACCTCTC 42

RESULT 2
US-09-801-274-752
; Sequence 752, Application US/09801274
; Patent No. US20020032319A1
; GENERAL INFORMATION:
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
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; TOPOLOGY: LINEAR

US-09-943-722-47

Query Match 1.2%; Score 20.4; DB 9; Length 48;

Best Local Similarity 71.1%; Pred. No. 2.3e+04;

Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 325 GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362

Db 7 GAGACGGTGGCCCGTGAAGTTGAAGCCGGGGATGATGG 44

RESULT 6

US-09-147-142-11

; Sequence 11, Application US/09147142

; Patent No. US20020018749A1

; GENERAL INFORMATION:

; APPLICANT: HUDSON, Peter John

; APPLICANT: KORTT, Alex Andrew

; APPLICANT: IRVING, Robert Alexander

; APPLICANT: ATWELL, John Leslie

; TITLE OF INVENTION: HIGH AVIDITY POLYVALENT AND POLYSPECIFIC REAGENTS

; FILE REFERENCE: 016786/0212

; CURRENT APPLICATION NUMBER: US/09/147,142

; EARLIER FILING DATE: 1999-03-05

; EARLIER APPLICATION NUMBER: PCT/AU98/00212

; EARLIER FILING DATE: 1998-03-26

; EARLIER APPLICATION NUMBER: AU PO 5917

; EARLIER FILING DATE: 1997-03-27

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 11

; LENGTH: 45

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: synthetic

; OTHER INFORMATION: oligonucleotide used to insert codon between VH

; OTHER INFORMATION: and VL domains of NC10 scFv-0

US-09-147-142-11

Query Match 1.1%; Score 20; DB 10; Length 45;

Best Local Similarity 65.9%; Pred. No. 2.8e+04;

Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

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Db 1 GGGACCACGGTCACGCTCCGGTGGTGATATCGAGCTCACACA 44

RESULT 7

US-09-147-142-12/c

; Sequence 12, Application US/09147142

; Patent No. US20020018749A1

; GENERAL INFORMATION:

; APPLICANT: HUDSON, Peter John

; APPLICANT: KORTT, Alex Andrew

; APPLICANT: IRVING, Robert Alexander

; APPLICANT: ATWELL, John Leslie

; TITLE OF INVENTION: HIGH AVIDITY POLYVALENT AND POLYSPECIFIC REAGENTS

; FILE REFERENCE: 016786/0212

; CURRENT APPLICATION NUMBER: US/09/147,142

; EARLIER FILING DATE: 1999-03-05

; EARLIER APPLICATION NUMBER: PCT/AU98/00212

; EARLIER FILING DATE: 1998-03-26

; EARLIER APPLICATION NUMBER: AU PO 5917

; EARLIER FILING DATE: 1997-03-27

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 12

; LENGTH: 45

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: synthetic

; OTHER INFORMATION: oligonucleotide used to insert codon between VH

; OTHER INFORMATION: and VL domains of NC10 scFv-0

US-09-147-142-12

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Best Local Similarity 65.9%; Pred. No. 2.8e+04;

Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

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Db 45 GGGACCACGGTCACGCTCCGGTGGTGATATCGAGCTCACACA 2

RESULT 8

US-09-263-959-758

; Sequence 758, Application US/09263959

; Patent No. US20020150891A1

; GENERAL INFORMATION:

; APPLICANT: Hood, Leroy E.

; APPLICANT: Rowen, Lee

; APPLICANT: Koop, Ben F.

; TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH U

; NUMBER OF SEQUENCES: 1279

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Seed and Berry LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: US

; ZIP: 98104-7092

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/263,959

; FILING DATE: 05-MAR-1999

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: McMasters, David D.

; REGISTRATION NUMBER: 33,963

; REFERENCE/DOCKET NUMBER: 920010.426C2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 758:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 40 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-263-959-758

Query Match 1.1%; Score 19.8; DB 10; Length 40;

Best Local Similarity 77.4%; Pred. No. 3e+04;

Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1689 CTTCCTGCTTACTCTCTGCTACCTGCTGCGCTG 1719

Db 3 CTTCCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTGCTGCGCTG 33

RESULT 9

US-09-790-417-235/c

; Sequence 235, Application US/09790417

; Patent No. US20010031470A1

; GENERAL INFORMATION:

; APPLICANT: Shultz, John W

; APPLICANT: Lewis, Martin K.

; APPLICANT: Lieppe, Donna

RESULT 11
US-10-073-256-35/c
; Sequence 35, Application US/10073256
; Patent No. US20020120408A1
; GENERAL INFORMATION:
; APPLICANT: Kreiswirth, Barry N
; APPLICANT: Nadich, Steven M
; TITLE OF INVENTION: System and Method

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RESULT 13
US-09-263-959-121/c
; Sequence 121, Application US/09263959
; Patent No. US20020150891a1
; GENERAL INFORMATION:
;   APPLICANT: Hood, Leroy E.
;   APPLICANT: Rowen, Lee
;   APPLICANT: Koop, Ben F.
;   TITLE OF INVENTION: DIAGNOSTIC AN
;   NUMBER OF SEQUENCES: 1279
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Seed and Berry LLP
;     STREET: 6300 Columbia Center, 7
;     CITY: Seattle
;     STATE: Washington
;     COUNTRY: US
;     ZIP: 98104-7092
; COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible

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GenCore version 5.1.4.p5.4578
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(without alignments)
10753.853 Million cell updates/sec

Title: US-10-017-621-3
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Minimum DB seq length: 0
Maximum DB seq length: 50
Post-processing: Minimum Match 0%
Maximum Match 100%
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8: em_hic:*
9: gb_estl:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
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27: em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES				
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2	28	1.6	28	R38968
3	23.2	1.3	48	AW247978
4	21.4	1.2	50	AU107934
5	21.2	1.2	36	AZ346286
6	21	1.2	50	AU102877

C 7	21	1.2	50	9	AU105237
C 8	21	1.2	50	13	BM397711
C 9	20.8	1.2	46	17	AZ993993
C 10	20.6	1.2	48	17	AZ311362
C 11	20.6	1.2	50	9	AU106960
C 12	20.4	1.2	47	17	AZ331536
C 13	20.2	1.2	45	17	AZ985975
C 14	20.2	1.2	49	9	AZ204601
C 15	20	1.1	40	9	A1475974
C 16	20	1.1	50	17	BH811451
C 17	19.8	1.1	49	14	W39000
C 18	19.4	1.1	50	9	AU104829
C 19	19.2	1.1	44	12	BG422154
C 20	19.2	1.1	49	17	AZ450961
C 21	19.2	1.1	50	9	AU103357
C 22	19.2	1.1	50	9	AU103358
C 23	19.2	1.1	50	9	AU103359
C 24	19.2	1.1	50	9	AU103361
C 25	19.2	1.1	50	9	AU103381
C 26	19.2	1.1	50	9	AU103915
C 27	19.2	1.1	50	9	AU106349
C 28	19.2	1.1	50	14	T74703
C 29	19	1.1	43	9	A1591257
C 30	19	1.1	49	17	AZ423762
C 31	19	1.1	50	9	AU107320
C 32	18.8	1.1	34	9	AA972479
C 33	18.8	1.1	43	17	BH857724
C 34	18.8	1.1	46	17	BH790015
C 35	18.8	1.1	50	9	AU102939
C 36	18.8	1.1	50	9	AU103583
C 37	18.8	1.1	50	9	AU104587
C 38	18.8	1.1	50	9	AU105918
C 39	18.6	1.1	44	17	TA185G05Q
C 40	18.6	1.1	45	9	A1250043
C 41	18.6	1.1	49	17	AZ966392
C 42	18.6	1.1	50	9	AU103382
C 43	18.6	1.1	50	9	AU103553
C 44	18.6	1.1	50	9	AU104162
C 45	18.6	1.1	50	13	B1910989

ALIGNMENTS

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N78054
LOCUS
DEFINITION
N78054
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
COMMENT

N78054 46 bp mRNA linear EST 28-JAN-1997
YV71905.r1 Soares fetal liver spleen INFLS Homo sapiens CDNA clone
IMAGE:248216 5' similar to gb:X66363 SERINE/THREONINE-PROTEIN
KINASE PCTAIRE-1 (HUMAN);, mRNA sequence.

N78054.1 GI:1240755
EST.
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 46)
Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chispeilli, B.,
Chissoe, S., Dietrich, N., DuBuque, T., Favello, A., Gish, W., Hawkins
, M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Mardis, E., Moore
, B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlffing, T.,
Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevaskis, E.,
Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M.
Generation and analysis of 280,000 human expressed sequence tags
Genome Res. 6 (9), 807-828 (1996)
97044478
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu


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ACCESSION      AU102877
VERSION        AU102877.1  GI:13552398
KEYWORDS       EST.
SOURCE         human.
ORGANISM       Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 50)
AUTHORS        Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
               ,Y., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
               ,Y., Nakamura,Y., Suyama,A. and Sugano,S.
TITLE          Diverse transcriptional initiation revealed by fine, large-scale
               mapping of mRNA start sites
JOURNAL        EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE        21270072
COMMENT        Contact: Yutaka Suzuki
               Department of Virology
               Institute of Medical Science, University of Tokyo
               4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
               Email: ysuzuki@ims.u-tokyo.ac.jp
               ,S. Construction and characterization of a full length-enriched and
               a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
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               /clone_lib="Sugano Homo sapiens cDNA library"
               /note="Differential display comparison of untreated and
               dmethylfumarate treated U937 cells"
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Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 491 ACATCCGGCTGCTGAGGCTACCTGGAG 519
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Db 1 ACATCCAGCTGCTGAGACCTTCTCGCAG 29

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ACCESSION      AU105237/c
LOCUS          AU105237 50 bp mRNA linear EST 30-AUG-2001
DEFINITION     HRC08919 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
               HRC08919, mRNA sequence.
ACCESSION      AU105237
VERSION        AU105237.1  GI:13554758
KEYWORDS       EST.
SOURCE         human.
ORGANISM       Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 50)
AUTHORS        Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
               ,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
               ,Y., Nakamura,Y., Suyama,A. and Sugano,S.
TITLE          Diverse transcriptional initiation revealed by fine, large-scale
               mapping of mRNA start sites
JOURNAL        EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE        21270072
COMMENT        Contact: Yutaka Suzuki
               Department of Virology
               Institute of Medical Science, University of Tokyo
               4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
               Email: ysuzuki@ims.u-tokyo.ac.jp
               ,S. Construction and characterization of a full length-enriched and
               a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
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dimethylfumarate treated U937 cells"
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Query Match    1.2%; Score 21; DB 9; Length 50;
Best Local Similarity 82.8%; Pred. No. 6.3e+05;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 558 CAGCGCGCGCTCCGTCGTCGTCAGCCTAT 586
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Db 35 CAGTCGCGCGCCATCCTGTCGCGCTAT 7

RESULT 8
ACCESSION      BM397711/c
LOCUS          BM397711 50 bp mRNA linear EST 17-JAN-2002
DEFINITION     Tetrahymena thermophila cDNA, mRNA sequence.
ACCESSION      BM397711
VERSION        BM397711.1  GI:18197764
KEYWORDS       EST.
SOURCE         Tetrahymena thermophila.
ORGANISM       Tetrahymena thermophila.
               Eukaryota; Alveolata; Ciliophora; Oligohymenophorea;
               Hymenostomatida; Tetrahymenina; Tetrahymena.
REFERENCE      1 (bases 1 to 50)
AUTHORS        Turkewitz,A.P., Karrer,K.M., Jahn,K., Orias,E., Kirk,K.E., Frankel
               ,J. and Klobutcher,L.
TITLE          EST from Tetrahymena thermophila, strain CU428.1, growing cells
JOURNAL        Unpublished (2002)
COMMENT        Contact: Turkewitz AP
               Molecular Genetics and Cell Biology
               University of Chicago
               920 E. 58th Street, Chicago, IL 60637, USA
               Tel: 773 702 4374
               Fax: 773 702 3172
               Email: apturkew@midway.uchicago.edu
               Seq primer: f3.
FEATURES       Location/Qualifiers
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               /strain="CU428.1"
               /db_xref="taxon:5911"
               /clone_lib="Chilcoat/Turkewitz cDNA (large fraction)"
               /note="Vector: Bluescript2 SK+; Details on library
               preparation can be found in Chilcoat and Turkewitz (2001)
               Proc. Natl. Acad. Sci USA, 98: 8709-8713."
BASE COUNT     10 a      7 c      23 g      2 t      8 others
ORIGIN
Query Match    1.2%; Score 21; DB 13; Length 50;
Best Local Similarity 60.0%; Pred. No. 6.3e+05;
Matches 27; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 82 CCCCGGGCTCTGAGTTGCTCGCGGCGCCCGCGCGATCGCCATG 126
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 50 CCCCGGACTCCAGCTTTGTCCNCNCNNNNNGGCTCTCCCTG 6

RESULT 9
ACCESSION      AZ993993
LOCUS          2M0279E13F Mouse 10kb plasmid UUC2M library Mus musculus genomic
               clone UUC2M0279E13 F, DNA sequence.
DEFINITION     AZ993993
ACCESSION      AZ993993
VERSION        AZ993993.1  GI:13865220
KEYWORDS       GSS.
SOURCE         house mouse.

```


	Mus musculus	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE	1	(bases 1 to 46)
AUTHORS	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.	
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts	
JOURNAL	Unpublished (2000)	
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center University of Utah Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunne@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0279 row: E column: 13 Seq primer: CGTTGTAAGACGGCCAGT Class: plasmid ends High quality sequence stop: 46. Location/Qualifiers	
FEATURES	source	
	1..46	/organism="Mus musculus" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="UUCG2M0279E13" /clone_lib="Mouse 10kb plasmid UUGC2M library" /sex="Female" /lab_host="E. coli strain XL10-Gold, Tl-resistant, F-" /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted RNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi 4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT	8 a	0 c 23 g 15 t
ORIGIN		
	Query Match	1.2%; Score 20.8; DB 17; Length 46;
	Best Local Similarity	70.0%; Pred. No. 6.8e+05;
	Matches	28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY	223	GATGAGGTGGTGCGGCAGTCACCTCGAGG 262
Db	3	GATGATGATGGTGCGGTGGTGATGATGATG 42
RESULT 10		
AZ311362		
LOCUS	AZ311362	48 bp DNA linear
DEFINITION	IM0026F16R Mouse 10kb plasmid UUGCLM library Mus musculus genomic clone UUGCM0026F16 R, DNA sequence.	
ACCESSION	AZ311362	
VERSION	AZ311362.1	GI:10354248
KEYWORDS	GSS:	house mouse.
SOURCE		

	Mus musculus	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE	1	(bases 1 to 48)
AUTHORS	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.	
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts	
JOURNAL	Unpublished (2000)	
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center University of Utah Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunne@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0026 row: F column: 16 Seq primer: CACACAGGAACACTATGACC Class: plasmid ends High quality sequence stop: 48. Location/Qualifiers	
FEATURES	source	
	1..48	/organism="Mus musculus" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="UUGCLM0026F16" /clone_lib="Mouse 10kb plasmid UUGCLM library" /sex="Male" /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-" /note="vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted RNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi 4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT	18 a	9 c 6 g 15 t
ORIGIN		
	Query Match	1.2%; Score 20.6; DB 17; Length 48;
	Best Local Similarity	67.4%; Pred. No. 7.8e+05;
	Matches	29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY	1499	CTACTTCCATATTTCACCTAAAGGAGATTTCAGCTACAAGA 1541
Db	5	CFAAATGCATGTTTTCTACTGAAGTAGAATCACCAATAARA 47
RESULT 11		
AUI06960/c		
LOCUS	AUI06960	50 bp mRNA linear EST 30-AUG-2001
DEFINITION	AUI06960 Sugano Homo sapiens cDNA library Homo sapiens CDNA clone CASO9689, mRNA sequence.	
ACCESSION	AUI06960	
VERSION	AUI06960.1	GI:13556481
KEYWORDS	EST.	
SOURCE	human.	

```
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
,Y., Nakamura,Y., Suyama,A. and Sugano,S.
TITLE Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE 21270072
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES
Location/Qualifiers
1..50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="CAS09689"
/clone_lib="Sugano Homo sapiens cDNA library"
/note="Differential display comparison of untreated and
dimethylfumurate treated U937 cells"
BASE COUNT 7 a 14 c 18 g 11 t
ORIGIN
Query Match 1.2%; Score 20.6; DB 9; Length 50;
Best Local Similarity 74.3%; Pred. No. 7.9e+05;
Matches 26; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
QY 922 CTTCTCCAGCTCTCGGGCTGCTGCTACTGCCA 956
||| ||||| ||||| ||||| ||||| ||||| |||||
Db 43 CTTTCCAGCTCGCCATGGCGCGCTGCCGCAA 9
RESULT 12
A2331536/c
LOCUS A2331536 47 bp DNA linear GSS 29-SEP-2000
DEFINITION IM0059H04R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0059H04 R, DNA sequence.
ACCESSION A2331536
VERSION A2331536.1 GI:10394326
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0059 row: H column: 04
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 47.
Location/Qualifiers
FEATURES
```

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1..47
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0059H04"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT 5 a 12 c 20 g 10 t
ORIGIN
Query Match 1.2%; Score 20.4; DB 17; Length 47;
Best Local Similarity 71.1%; Pred. No. 8.6e+05;
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 1644 GCTTGAGGGATGTCACACCCCTCACAGGCGAGCCGCCCA 1681
||| ||||| ||||| ||||| ||||| ||||| |||||
Db 38 GTTTGAAGGGCGGCCCCCCCCCATCACAGGCCCCCCCCCA 1
RESULT 13
A2985975
LOCUS A2985975 45 bp DNA linear GSS 27-APR-2001
DEFINITION ZM0268F01F Mouse 10kb plasmid UUGC2M library Mus musculus genomic
clone UUGC2M0268F01 F, DNA sequence.
ACCESSION A2985975
VERSION A2985975.1 GI:13857202
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0268 row: F column: 01
Seq primer: CGTTGTAACAGCAGCCGACGT
Class: plasmid ends
High quality sequence stop: 45.
Location/Qualifiers
FEATURES
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source

1. .45
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0268F01"
/clone_lib="Mouse 10kb plasmid UUGC2M library"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pWD42nv: Purified genomic DNA from M.
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi:4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 18 a 0 c 24 g 3 t
ORIGIN

Query Match 1.2%; Score 20.2; DB 17; Length 45;
Best Local Similarity 68.3%; Pred. No. 9.5e+05;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4 AAGCAGCGTAAAGGATGACAGAGTGCAGAGTGGCAGG 44
||| | | | | | | | | | | | | | | | | | | |
Db 4 AAAGAAGAAAGGGGGGAGAGGATGGGAGGAGGGGTGG 44

RESULT 14
AA204601/c
LOCUS
DEFINITION
mu25c05.r1 Soares thymus_2NbWT Mus musculus cDNA clone IMAGE:640424
5' similar to SW:1436_BOVIN P29359 14-3-3 PROTEIN GAMMA ;, mRNA
sequence.

ACCESSION
AA204601
VERSION
KEYWORDS
SOURCE
ORGANISM
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 49)
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Willson, R. and
Waterston, R.

TITLE
JOURNAL
COMMENT
The WashU-HHMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:392416
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -28M13 rev2 from Amersham

FEATURES
source

High quality sequence stop: 1.
Location/Qualifiers
1. .49
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:640424"
/clone_lib="Soares_thymus_2NbWT"
/sex="male"
/tissue_type="Thymus"
/dev_stage="4 weeks"
/lab_host="DH10B"
/note="Vector: pT73D-pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
was primed with Not I - oligo(dT) primer [5',
TGTTACCAATCTGAAGTGGAGCGCGCGCTTTTTTTTTTTTTTTTTT
3']; double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified pT73 vector. RNA
provided by Dr. Bertrand Jordan. Library went through two
rounds of normalization, and was constructed by Bento
Soares and M.Fatima Bonaldo."

BASE COUNT 14 a 23 c 5 g 7 t
ORIGIN

Query Match 1.2%; Score 20.2; DB 9; Length 49;
Best Local Similarity 75.8%; Pred. No. 9.9e+05;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1156 ATGGGGGTGGGCTGCATCTTCTATGAGATG 1188
||| | | | | | | | | | | | | | | | | | | |
Db 33 ATGGGCTGTGAGCTGCATGCTCTCTGTGCTG 1

RESULT 15
AI475974/c
LOCUS

DEFINITION
AI475974 t196b06.x1 NCI_CGAP Col4 Homo sapiens cDNA clone IMAGE:2154899 3'
similar to TR:Q17352 Q17352 RRM-TYPE RNA BINDING PROTEIN. ;contains
element MSRI repetitive element ;, mRNA sequence.

ACCESSION
AI475974
VERSION
KEYWORDS
SOURCE

AI475974 40 bp mRNA linear EST 14-APR-1999
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 40)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@femail.nih.gov

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Greg Lennon, Ph.D.
Clone distribution: Washington University Genome Sequencing Center
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 416 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 1.
Location/Qualifiers
1. .40

FEATURES
source

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2154899"
/clone_lib="NCI_CGAP_Col4"

/tissue_type="moderately-differentiated adenocarcinoma"
/lab_host="DH10B"
/note="Organ: colon; Vector: pCMV-SPORT6; Site_1: SalI;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.7 kb. Life Technologies catalog #:
11531-019"

BASE COUNT 9 a 13 c 14 g 4 t
ORIGIN

Query Match 1.1%; Score 20; DB 9; Length 40;

Best Local Similarity 72.2%; Pred. No. 1e+06;

Matches 26; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 232 GGTGGTGGCGGCGAGTGACCTGGAGAGGCCCCC 267

Db 39 GGTGGTGGTGTCTTTACCAACCTGGTGACCCCCC 4

Search completed: March 4, 2003, 00:50:32
Job time : 2635 secs